

Index to Volume 10

Authors, Titles, and Subjects

- Abstracts of papers from clinical chemists sessions, 130th Annual Meeting of the AAAS, 457-468
- Abstracts of papers from scientific sessions, 16th National Meeting of the AACC, 631-662
- Acetone, determination by gas chromatography, 462
- ACKERMANN, P. G., and KHEIM, T. Plasma amino acids in young and older adult human subjects, 32
- Adaptation of a photoelectric colorimeter to a computer program for calculating and storing data in a clinical chemistry laboratory, by D. K. McKay *et al.*, 291
- Adaptation of the Berthelot color reaction for the determination of urea nitrogen in serum and urine to an ultramicro system, by J. C. Mathies, 366
- ADLER, D. H., *see* WEINBERG, M. S.
- AGUAYO, S. E. Abstract, 637
- Albumin, serum, 309
- Alcohols, determination, 429
- Alkaline phosphatase, 75
- ALLEN, J. G., *see* DAWSON, D.
- AMATUZIO, D. S., *see* GRANDE, F.
- Ames award lecture 1963: The development of clinical chemistry, by C. P. Stewart, 268
- Amino acids, plasma, 32
- Ammonia, 655
blood, 991
cells and plasma, 589
plasma, 497
- Amylase
determination, 891
serum, 633
- Analyses on heat-coagulated blood and serum: I. The determination of uric acid, by M. London and J. H. Marymont, Jr., 298
- Analyses on heat-coagulated blood and serum: II. The determination of serum inorganic phosphate, by M. London and J. H. Marymont, Jr., 417
- Analysis of crystalline materials in pathology using X-ray diffraction methods (Abstract), by J. Parsons, 458
- Analysis on heat coagulated blood and serum: IV. Direct determination of uric acid by ultraviolet absorption, by J. H. Marymont, Jr., and M. London, 937
- Analysis on heat coagulated blood and serum: V. Determination of glucose, by M. London and J. H. Marymont, Jr., 942
- Angiotensin, 466
- ANNINO, J. S.
Abstract, 636
Observation concerning the Bratton-Marshall diazo reaction in sulfonamide-free urine, 370
- ANSON, J. H., *see* DIRSTINE, P. H.
- Anthrone reaction, 597
- Applicability of chromatography to clinical problems (Abstract), by E. Heftmann, 461
- Application and modification of the Momose-Ohkura fluorometric determination of blood glucose, by B. B. Bourne, 1121
- Application of atomic absorption spectrophotometry in the determination of calcium in serum, by A. Zettner and D. Seligson, 869
- Application of electronics to automated

Pages 1-94, January; 95-190, February; 191-280, March; 281-380, April; 381-478, May; 479-574, June; 575-672, July; 673-766, August; 767-868, September; 869-964, October; 965-1058, November; 1059-1172, December.

- microanalysis (Abstract), by H. L. Pardue, 464
- Approach to diagnostic enzymology with particular reference to myocardial and hepatocellular damage (Abstract), by P. E. Strandjord, 634
- Arsenic, urine, 647
- Ascorbic acid, urine, 575
- Aspirin interference with wet ash procedure for protein-bound iodine (Abstract), by H. G. Hamacher, 660
- Atomic absorption spectrophotometry, 869
- Automated determination of alkaline phosphatase utilizing p-nitrophenol phosphate, by R. E. Sterling *et al.*, 1112
- Automated determination of serum alkaline phosphatase using a modified Bodansky technic, by H. Keay and J. A. Trew, 75
- Automated determination of serum glutamic oxalacetic and glutamic pyruvic transaminase, by R. R. Schaffert *et al.*, 519
- Automated determination of serum total cholesterol (Abstract), by B. Zak, 649
- Automated method for the determination of serum bilirubin, by M. Golub, 399
- Automated p-nitrophenylphosphate serum alkaline phosphatase procedures (Abstract), by S. Morganstern, 635
- Automated procedure for the simultaneous determination of calcium and phosphorus, by G. Kessler and M. Wolfman, 686
- Automatic method for the determination of serum lactate dehydrogenase activity (Abstract), by P. E. Strandjord, 635
- Automatic method for the determination of serum ornithine carbamoyltransferase activity (Abstract), by P. E. Strandjord, 634
- Automatic sequential analysis, 918
- Automation, 246, 648, 651
- BAGINSKI, E. Abstract, 641
- BAKER, W. L., *see* DEVOR, A. W.
- BAKER, W. J., *see* FENICHEL, R. L.
- BARAK, A. J., *see* HUMOLLER, F. L.
- BARD, J., *see* LYONS, H.
- BARNETT, R. N., *see* HALD, P. M.
- BARRETT, D. L. Abstract, 464
- BECKER, C. E. Abstract, 642
- BEKESI, J. G. Abstract, 653
- BENOTTI, J. Abstract, 660
- BERGER, L., *see* MARTINEK, R. G.
- BERKMAN, S., *see* HENRY, R. J.
- BERMAN, J. L. Abstract, 640
- BERGQUIST, L. M., *see* SEARCY, R. L.
- BEYLER, A. L., *see* RYAN, W. T.
- Bile acids, serum, 646
- Bile pigments, 95, 433, 440
- Bilirubin, 197
- serum, 95, 399, 433
- Biochemical analysis of serum of heart patients with ophthalmologic disease (Abstract), by M. Reiner, 653
- Biosynthesis of serum glycoproteins in normal and tumor-bearing rats utilizing glucosamine-1-C¹⁴ as a precursor (Abstract), by R. A. Macbeth, 644
- BLICKERSTAFF, R. T., *see* CHANG, F. C.
- Body water, 13
- Book Reviews*, 454, 568, 760, 1147
- BITTAR, E. E. Cell pH, rev. by J. Sendroy, Jr., 1147
- BORUSHEK, S., and GOLD, J. J. Commonly used medications that interfere with routine endocrine laboratory procedures, 41
- DORFMAN, R. I. and NEVES, M. Pituitary-ovarian endocrinology, rev. by A. Albert, 760
- ENGLEY, F. B., JR. Pocket reference guide to microbiology, rev. by D. Kaminsky, 454
- HARE, R. An outline of bacteriology and immunity, rev. by D. Kaminsky, 455
- NUSSENBAUM, S. Organic chemistry: principles and applications, rev. by F. L. Rodkey, 568
- BOURNE, B. B. Application and modification of the Momose-Ohkura fluoro-

- metric determination of blood glucose, 1121
- BOUTWELL, J. H., JR.
Estimation of bilirubin using acetamide, 197
Serum cholesterol, 1039
- BOWERS, G. N. Abstract, 636
- BOYLE, A. J., *see* BURCAR, P. J.
- BRIGGS, A. R. Abstract, 647
- BROIDA, D., *see* MARTINEK, R. G.
- BROWN, F., *see* JACKSON, S. H.
- BRUNJES, S., WYBENGA, D., and JOHNS, V. J., JR. Fluorometric determination of urinary metanephrine and normetanephrine, 1
- BSP test, 646
- BURCAR, P. J., BOYLE, A. J., and MOSHER, R. E. Spectrophotometric determination of magnesium in blood serum using Magon, 1028
- BURNS, A., *see* GARDINER, E.
- CABEZAS, J. A., and PORTO, J. V. Sialic acid (N-Acetylneuraminic acid) in human serum, 986
- Calcium, 352, 726, 767
determination, 686, 704
serum, 159, 235, 869
urinary, 549
- CAMPBELL, D. J., and BOENISCH, T. Macroglobulinemia: The usefulness of DL-penicillamine and paper electrophoresis in diagnosis, 600
- CAMPBELL, D. J., SHERBANIUK, R., and RIGBY, J. False positive reaction due to methocarbamol in the screening test for vanilmandelic acid (VMA), 447
- CARAWAY, W. T. Abstract, 640
- Carbon dioxide content, 153
- CARSON, P. E., *see* VAN SLYKE, D. D.
- Catecholamines, 959
urinary, 372
- Cephalin-cholesterol flocculation, 647
test, 781
- CHAMBERLIN, J. A.
see HANNA, E. A.
- see* NICHOLAS, H. O.
- CHANG, F. C. Seroflocculating steroids: XI. Interim summary, 490
- CHANG, F. C., and BLICKENSTAFF, R. T. Seroflocculating steroids. X. The screening method, 83
- Chemical tests to evaluate drug effectiveness on cancer (Abstract), by H. C. Damm, 466
- CHERNAIK, J. M., *see* KLEIN, D.
- Chloride, serum, 533
- CHOITZ, H. C., *see* GAEBLER, O. H.
- Cholesterol, 116, 241, 258, 451, 468, 619, 649, 1025, 1039
determination, 637
Cholesterol measurement in serum and in plasma, by F. Grande *et al.*, 619
- Cholinesterase, serum, 632
- Chromatographic assay of estrogen in pregnancy urine (Abstract), by E. Epstein, 637
- Clinical applications of infrared spectroscopy. III. Identification of sugars, by B. Klein and M. Weissman, 741
- Clinical Chemist, The*, 189, 277, 377, 469, 569, 663, 762, 866, 962, 1054, 1149
- Clinical evaluation of serum guanase as a liver function test (Abstract), by J. L. Whitehouse, 632
- Clinical studies on glucose metabolism via the pentose phosphate pathway in human erythrocytes, by E. G. Olmstead and J. H. Lunseth, 1050
- Colorimetric method for determination of serum chloride, by R. G. Schoenfeld and C. J. Lewellen, 533
- Commonly used medications that interfere with routine endocrine laboratory procedures, by S. Borushek and J. J. Gold, 41
- Comparison of enzyme activities of arterial samples from sexually mature men and women, by J. E. Kirk, 184
- Comparison of 45-minute retention of BSP with its plasma disappearance

- rate (Abstract), by T. Peters, Jr., 646
- Comparison of some methods of cholesterol measurement, by B. E. Hawthorne, 258
- Comparison of techniques for estimation of albumin by determination of its dye-binding capacity and by paper electrophoresis, by J. F. Goodwin, 309
- Complexometric titration of calcium and magnesium by a semiautomated procedure, by J. D. Jones and W. F. McGuckin, 767
- Computer program for clinical chemistry, 291
- Construction of a special-purpose slide rule (Abstract), by D. L. Barrett, 464
- Continuous monitoring of significant clinical components employing parotid secretion (Abstract), by A. H. Kadish, 650
- Copper, determination, 845
- Coproporphyrin analyses on random urine samples, by C. J. Rogers, 678
- Coulometric determination of urea nitrogen (Abstract), by E. C. Knoblock, 659
- Creatinine, urine, 650
- CROWLEY, L. V.
 Determination of uric acid: An automated analysis based on a carbonate method, 838
 Evaluation of serum protein fractionation using a methyl orange method for determination of albumin, 1131
- DAMM, H. C. Abstract, 466
- DASLER, W., and TONER, R. E.
- DAWSON, D., ZAJTCHUK, R., and ALLEN, J. G. Use of halogenated acetates and formaldehyde as plasma additives in inhibiting heat denaturation of plasma proteins, 793
- Decolorization on freezing of ferricyanide-cyanide solution used for hemoglobin determinations, by O. Mickelsen *et al.*, 611
- Deoxyribonuclease, 652
- Determination of acetone in rebreathed oxygen using gas chromatography (Abstract), by S. Levey, 462
- Determination of albumin in human plasma and serum (Abstract), by F. L. Rodkey, 643
- Determination of cholesterol by means of phloroglucinol in acid solution, by B. Sahagian and V. E. Levine, 116
- Determination of exogenous galactose in blood using "specially purified" glucose oxidase, by S. S. Waldstein *et al.*, 381
- Determination of free and total indole-3-acetic acid and of the indole index, by J. Fischl and S. Rabiah, 281
- Determination of iodine in biologic material, by H. Hoch *et al.*, 799
- Determination of iron-binding capacity of blood serum, by G. Nadeau and B. Fortin, 862
- Determination of lead in blood by cathode ray polarography (Abstract), by P. J. N. Cox, 647
- Determination of phenylalanine in blood and urine, by L. I. Woolf and B. L. Goodwin, 146
- Determination of uric acid: An automated analysis based on a carbonate method, by L. V. Crowley, 838
- DEVOR, A. W., BAKER, W. L., and DEVOR, K. A. Effect of toluene and similar compounds on the carbohydrate-anthrone reaction, 597
- DEVOR, K. A., *see* DEVOR, A. W.
- Diagnostic test for fructosuria, by P. L. Sarma, 224
- Diazo reaction in urine, 370
- Difference spectra of cerebral spinal fluid (Abstract), by C. W. Kreke, 467
- Differential spectrophotometric determination of calcium, by N. Radin and A. L. Gramza, 704
- Diphenylamine test as a diagnostic tool (Abstract), by A. M. Stumpf, 662
- Direct automated determination of glu-

- cose by a glucose oxidase-peroxidase system, by G. Getchell *et al.*, 540
- Direct measurement of serum iron and binding capacity (Abstract), by J. F. Goodwin, 638
- Direct spectrophotometric assay for serum alkaline phosphatase (monoester phosphohydrolase) (Abstract), by G. N. Bowers, Jr., 636
- DIRSTINE, P. H., MACCALLUM, D. B., ANSON, J. H., and MOHAMMED, A. Optimum clinical application of serum protein electrophoresis, 853
- Distribution of ammonia in cells and plasma, by F. L. Humoller *et al.*, 589
- Dixanthylurea, 128
- DOUGLAS, G. L., *see* SEARCY, R. L.
- Drier-extractor, 1007
- DUBIN, A., *see* WALDSTEIN, S. S.
- DUBOWSKI, K. M. Abstract, 659
- Effect of column design on the chromatographic separation of neutral lipids (Abstract), by G. A. Fisher, 461
- Effect of sample size on an automatic continuous flow method (Abstract), by R. D. McNair, 648
- Effect of toluene and similar compounds on the carbohydrate-anthrone reaction, by A. W. Devor *et al.*, 597
- Effect of transplantable tumors on the serumuroid fraction of rat's serum (Abstract), by J. G. Bekesi, 653
- Effects of age and sex on the electrophoretic fractions of the serum glycoprotein, by R. H. Pearce *et al.*, 1066
- EDUS, L., and HAMILTON, E. J. Screening test for fast isoniazid inactivators, 581
- Elaboration of deoxyribonuclease (DNase) by sonically disrupted staphylococci (Abstract), by J. Kream, 652
- Electrophoresis, 309, 346, 459, 641, 644, 950, 1066
polyacrylamide gel, 644
urea-starch gel, 642
VMA, 637
- Electrophoretic aids in identification of proteins (Abstract), by L. A. Lewis, 458
- Electrophoretic separation of AMP, ADP, and ATP (Abstract), by E. Baginski, 641
- Electrophoretic study of serum protein-bound carbohydrate in dysproteinemia, by D. J. Evenson *et al.*, 824
- Enzymes, 634
activities, 184
quality control, 655
- Enzyme activities during hepatic injury caused by carbon tetrachloride, by M. M. Friedman and B. Lapan, 335
- Enzyme activities of human inferior vena cava, by J. E. Kirk, 306
- Enzymatic method for determination of vanillyl-mandelic acid, by C. L. Rosano, 673
- EPSTEIN, E. Abstract, 637
- Erythrocyte glucose-6-phosphate dehydrogenase deficiency (Abstract), by G. C. Hoffman, 460
- Estimation of albumin and total protein in a single aliquot (Abstract), by J. F. Goodwin, 643
- Estimation of bilirubin using acetamide, by J. H. Boutwell, Jr., 197
- Estimation of arsenic in urine by extraction with toluene and colorimetry with molybdate (Abstract), by M. E. Hanke, 647
- Estimation of galactose in plasma using galactose oxidase, by J. D. Ford and J. C. Haworth, 1002
- Estrogen, 637
- ETTMAN, S. L., and GORDON, H. W. Shortened screening test for catecholamines, 959
- Evaluation of a cholesterol "kit," by P. M. Hald *et al.*, 241
- Evaluation of a screening procedure for glutamic oxalacetic transaminase (Abstract), by R. D. McNair, 631
- Evaluation of procedures for urinary calcium, by F. W. Fales, 549
- Evaluation of serum protein fractionation using a methyl orange method for de-

- termination of albumin, by L. V. Crowley, 1131
- EVENSON, D. J., MCGUCKIN, W. F., MCKENZIE, B. F., and HAGEDORN, A. B. Electrophoretic study of serum protein-bound carbohydrate in dysproteinemia, 824
- FALES, F. W. Abstract, 645
- FALES, F. W. Evaluation of procedures for urinary calcium, 549
- False positive reaction due to methocarbamol in the screening test for vanilmandelic acid (VMA), by D. J. Campbell *et al.*, 447
- Feces, analysis, 661
- FENICHEL, R. L., BAKER, W. J., and ROSE, L. Use of a stabilized partial thromboplastin reagent in the partial thromboplastin test, 69
- FERNANDEZ, A. A., *see* HENRY, R. J.
- FERRO, W. F., *see* RYAN, W. T.
- Fibrinogen, 460
- Fibrinolysis, 660
- FINGERHUT, B. Abstract, 633
- FISCHER, D. S., and PRICE, D. C. Simple serum iron method using the new sensitive chromogen tripyridyl-s-triazine, 21
- FISCHL, J., and RABIAH, S. Determination of free and total indole-3-acetic acid and of the indole index, 281
- FISHER, D. H., *see* WOODRING, M. J.
- FISHER, G. A. Abstract, 461
- Flame photometry, 651
- Fluorometric determination of urinary metanephrine and normetanephrine, by S. BRUNJES *et al.*, 1
- FORD, J. D., and HAWORTH, J. C. Estimation of galactose in plasma using galactose oxidase, 1002
- FORMAN, D. T. Rapid determination of plasma ammonia by an ion-exchange technique, 497
- FORTIN, B., *see* NADEAU, G.
- FRIEDMAN, M. M. Abstract, 654
- FRIEDMAN, M. M., and LAPAN, B. Enzyme activities during hepatic injury caused by carbon tetrachloride, 335
- Fructose, 224
- FULD, J., *see* LONDON, M.
- Fully automatic method for the determination of serum protein-bound iodine (Abstract), by N. Gochman, 649
- GAEBLER, O. H. Abstract, 655
- GAEBLER, O. H., and CHOITZ, H. C. Studies of body water and water turnover determined with deuterium oxide added to food, 13
- Galactose, 381
- plasma, 1002
- Galactose tolerance test with simultaneous blood glucose determinations (Abstract), by F. W. Fales, 645
- GARDINER, E., and BURNS, A. Micromethod for the rapid determination of serum protein-bound iodine and total serum iodine, 1137
- Gas chromatographic analyses of biological materials for CNS depressants (Abstract), by I. Sunshine, 648
- Gas chromatographic determination of lower alcohols in biologic samples, by H. Lyons and J. Bard, 429
- Gas chromatography, 462
- GERARDE, H. W., *see* WALTER, A. R.
- GERSTENFELD, S., *see* SAIFER, A.
- GETCHELL, G., *see* SCHAFFERT, R. R.
- GETCHELL, G., KINGSLEY, G. R., and SCHAFFERT, R. R. Direct automated determination of glucose by a glucose oxidase-peroxidase system, 540
- Glucose
- blood, 641, 1121
- determination, 540, 942
- hepatic output, 457
- metabolism, 1050
- oxidase, 381
- 6-phosphate dehydrogenase, 460
- serum, 563
- Glutamic oxalacetic transaminase, 519, 631
- Glutamic pyruvic transaminase, 519
- Glutathione, serum, 53
- Glycoproteins, 644, 736, 1066

- GOCHMAN, N. Abstract, 649
- GOLD, J. J., *see* BORUSHEK, S.
- GOLUB, M. Automated method for the determination of serum bilirubin, 399
- GOLLUB, S. Useful modification of the prothrombin time, 730
- GOODWIN, B. L., *see* WOLF, L. I.
- GOODWIN, J. F. Abstract, 638, 643
- GOODWIN, J. F. Comparison of techniques for estimation of albumin by determination of its dye-binding capacity and by paper electrophoresis, 309
- GORDON, H. W., *see* ETTMAN, S. L.
- GRAMZA, A. L., *see* RADIN, N.
- GRANDE, F., AMATIZIO, D. S., and WADA, S. Cholesterol measurement in serum and in plasma, 619
- Guanase, serum, 631, 632
- Guanidino compounds in the urine of the normal and uremic patient (Abstract), by S. Natelson, 658
- HAGEDORN, A. B., *see* EVENSON, D. J.
- HALD, P. M., WEINBERG, M. S., BARNETT, R. N., LAVIETES, P. H., and SELIGSON, D. Evaluation of a cholesterol "kit," 211
- HAMACHER, H. G. Abstract, 660
- HAMILTON, E. J., *see* EIDUS, L.
- HANKE, M. E. Abstract, 647
- HANNA, E. A., NICHOLAS, H. O., and CHAMBERLIN, J. A. Nomogram for estimating diffusible serum calcium, 235
- HASE, T. Simple microelectrophoretic method using starch-agar gel, 62
- HAWORTH, J. C., *see* FORD, J. D.
- HAWTHORNE, B. E. Comparison of some methods of cholesterol measurement, 258
- Heat-coagulated blood, 937, 942 and serum, 298, 417
- HEFTMANN, E. Abstract, 461
- Hemodynamic studies on angiotensin in unrestrained dogs (Abstract), by F. Olmsted, 466
- Hemoglobin, 468, 611 quantitation, 424
- HENRY, R. J. *see* JACOBS, S. L. *see* STEVENSON, G. W.
- HENRY, R. J., FERNANDEZ, A. A., and BERKMAN, S. Studies on the determination of bile pigments: VI. Urobilinogen in urine as urobilinogen-aldehyde, 440
- HOCH, H., SINNETT, S. L., and MCGAVACK, T. H. Determination of iodine in biologic material, 799
- HOCHSTRASSER, H., *see* SKEGGS, L. T., JR.
- HOFFMAN, G. C. Abstract, 460
- HOLMES, F. E. Turbulent drier-extractor and a wide-interface extractor: A method for determining total lipid in serum, feces, and urine, 1007
- Holmium oxide filter, 1117
- HOLTHAUS, J. M., *see* HUMOLLER, F. L.
- HUE, A. C. Abstract, 631
- HUMOLLER, F. L., BARAK, A. J., and HOLTHAUS, J. M. Distribution of ammonia in cells and plasma, 589
- Hydrocarbons, determination, 648
- 17-hydroxycorticosteroids, 103
- 5-hydroxyindole-acetic acid, 721
- Hydroxylapatite chromatography of certain human serum paraproteins (Abstract), by C. E. Becker, 642
- Hydroxyproline in human blood serum: forms in which it is present (Abstract), by A. C. Kibrick, 656
- Hyperparathyroidism, 228
- Immunochemical studies of human serum components obtained with urea-starch gel electrophoresis (Abstract), by A. Saifer, 642
- Improved method for guanase measurement in serum or plasma (Abstract), by A. C. Hue, 631
- Improved method for the measurement of urinary 17-ketosteroids of small laboratory animals, by W. T. Ryan *et al.*, 191
- Improved quantitation of cephalin-cholesterol flocculation test, by R. G. Martinek *et al.*, 781

- Incorporation of P³² labeled phosphate into the phospholipids of the liver mitochondria of fasted non-irradiated and whole body X-ray irradiated rats (Abstract), by H. P. Schwartz, 654
- Indole-3-acetic acid, 281
- Indole index, 281
- Inexpensive quality control program (Abstract), by D. B. Morrison, 662
- INOUE, T., *see* WONG, P. W. K.
- Interference by formaldehyde-forming drugs in the determination of urinary catecholamines, by M. O. Klotz *et al.*, 372
- Interference of thiouracil in the ferric chloride-sulfuric acid cholesterol reaction, by E. W. Rice, 1025
- Iodine, 799
determination, 660
total serum, 1137
- Iron-binding, 638, 639
capacity, serum, 862
- Iron, serum, 21
- Isoniazid inactivators, 581
- I¹³¹-uptake, 136
- JACKSON, S. H., and BROWN, F. Simultaneous determination of calcium and magnesium of serum by a single chelometric titration, 159
- JACOBS, S. L., *see* STEVENSON, G. W.
- JACOBS, S. L., HENRY, R. J., and SEGALOVE, M. Studies on the determination of bile pigments: V. Comparison of some methods for determination of total, free, and conjugated bilirubin in serum, 433
- JEWETT, W. R., *see* MCKAY, D. K.
- JOHNSON, G. W. Abstract, 648
- JOHNS, V. J., JR., *see* BRUNJES, S.
- JONES, J. D., and MCGUCKIN, W. F. Complexometric titration of calcium and magnesium by a semiautomated procedure, 767
- JOSEPH, R. R., *see* RESSLER, N.
- KABARA, J. J. Abstract, 462
- KABARA, J. J., ZYSKOWSKI, D., and POKORNICKI, H. New method for scanning electrophoretograms, 950
- KADISH, A. H. Abstract, 650
- KAPLAN, A. Abstract, 657
- KEAY, H., and TREW, J. A. Automated determination of serum alkaline phosphatase using a modified Bodansky technic, 75
- KELSEY, J. R., and KLOSS, R. A. Quantitation of some abnormal hemoglobins, 424
- KESSLER, G., and WOLFMAN, M. Automated procedure for the simultaneous determination of calcium and phosphorus, 686
- 17-ketosteroids, 191
- KEYSER, J. W., and STEPHENS, B. T. Serum glycoproteins and serumucoid in patients with myocardial infarction, 736
- KHEIM, T., *see* ACKERMANN, P. G.
- KIBRICK, A. C. Abstract, 656
- KING, J. W. Abstract, 459
- KINGSLEY, G. R.
see GETCHELL, G.
see SCHAFFERT, R. R.
- KIRK, J. E.
Comparison of enzyme activities of arterial samples from sexually mature men and women, 184
Enzyme activities of human inferior vena cava, 306
- KLEIN, B., and WEISSMAN, M. Clinical applications of infrared spectroscopy. III. Identification of sugars, 741
- KLEIN, D., and CHERNAIK, J. M. Urinary pregnanediol and pregnanetriol: spectrophotometric determination following aluminum oxide column chromatography, 170
- KLOSS, R. A., *see* KELSEY, J. R.
- KLOTZ, M. O., RICHTER, H., and MEUFFELS, M. Interference by formaldehyde-forming drugs in the determination of urinary catecholamines, 372
- KNOBLOCK, E. C. Abstract, 659
- KOROTZER, J. L., *see* SEARCY, R. L.

- KREKE, C. W. Abstract, 467
- KUM-TATT, L., and LEONG, P. C. New method for the determination of ascorbic acid in urine, 575
- KUNITAKE, G. M. Abstract, 655
- LABBE, R. F., *see* MOORE, D. J.
- Lactic dehydrogenase, 635
- Lactic dehydrogenase: A comparison of two methods, by M. S. Weinberg and D. H. Adler, 749
- Lactic dehydrogenase in mitochondria of placenta and amniotic membranes (Abstract), by M. M. Friedman, 654
- LAPAN, B., *see* FRIEDMAN, M. M.
- LAVIETES, P. H., *see* HALD, P. M.
- Lead, blood, 647
- LEE, N. D., PILEGGI, V. J., and SEGALOVE, M. Study of variables affecting the ion-exchange resin uptake of I^{131} -labeled triiodothyronine from human serum, 136
- LEONARDS, J. R. Abstract, 457
- LEONG, P. C., *see* KUM-TATT, L.
- Letters to the Editor, 92, 188, 374, 627, 759
- Leucine aminopeptidase (LAP), 1087
- LEVEY, S. Abstract, 462
- LEVIN, S. J. Abstract, 646
- LEVINE, V. E., *see* SAHAGIAN, B.
- LEWELLEN, C. J., *see* SCHOENFELD, R. G.
- LEWIS, L. A. Abstract, 458
- Limitations in clinical use of a screening test for protein, by D. Watson, 559
- Lipids
- neutral, 461
 - serum, 657
 - total, 468
 - total serum, feces, and urine, 1007
- LIU, J. H. C. Modified procedure for the estimation of total 17-hydroxycorticosteroids (Porter-Silber chromogens) in urine, 103
- LONDON, M., *see* MARYMONT, J. H., JR.
- LONDON, M., and MARYMONT, J. H., JR.
- Analysis on heat coagulated blood and serum: V. Determination of glucose, 942
 - Analyses on heat-coagulated blood and serum: II. Determination of serum inorganic phosphate, 417
 - Analyses on heat-coagulated blood and serum: I. Determination of uric acid, 298
- LONDON, M., MARYMONT, J. H., JR., and FULD, J. Solvent coagulation of serum proteins, 789
- LOTITO, L. A., *see* MCKAY, D. K.
- LOWELL, D. J. Abstract, 463
- LUNSETH, J. H., *see* OLMSTEAD, E. G.
- LYONS, H., and BARD, J. Gas chromatographic determination of lower alcohols in biologic samples, 429
- MACBETH, R. A. Abstract, 644
- MACCALLUM, D. B., *see* DIRSTINE, P. H.
- MACDONALD, R. P. Uses for a holmium oxide filter in spectrophotometry, 1117
- McGAVACK, T. H., *see* HOCH, H.
- MCGUCKIN, W. F.
- see* EVENSON, D. J.
 - see* JONES, J. D.
- MCKAY, D. K., LOTITO, L. A., SELIGSON, D., and WOGGIN, C. A. Adaptation of a photoelectric colorimeter to a computer program for calculating and storing data in a clinical chemistry laboratory, 291
- MCKAY, D. K., SELIGSON, D., and JEWETT, W. R. Photometric system for automatically reading concentration, 907
- McKENNA, C. H., *see* WALDSTEIN, S. S.
- McKENZIE, B. F., *see* EVENSON, D. J.
- McNAIR, R. D. Abstract, 631, 648
- Macroglobulinemia: The usefulness of dipenicillamine and paper electrophoresis in diagnosis, by D. J. Campbell and T. Boenisch, 600
- Magnesium, 465, 767
- serum, 159, 1028
 - in urine, 391
- MANN, J. D., *see* MARTINEK, R. G.
- MARTINEK, R. G.
- Method for the determination of Vita-

- min E (total tocopherols) in serum, 1078
- Simplified ultramicro determination of carbon dioxide content using the Natelson microgasometer, 153
- MARTINEK, R. G., BERGER, L., and BROIDA, D. Simplified estimation of leucine aminopeptidase (LAP) activity, 1087
- MARTINEK, R. G., VIMBA, E., and MANN, J. D. Improved quantitation of cephalin-cholesterol flocculation test, 781
- MARYMONT, J. H., JR., *see* LONDON, M.
- MARYMONT, J. H., JR., and LONDON, M. Analysis on heat coagulated blood and serum: IV. Direct determination of uric acid by ultraviolet absorption, 937
- MATHIES, J. C. Adaptation of the Berthelot color reaction for the determination of urea nitrogen in serum and urine to an ultramicro system, 366
- MATHIESON, J. M., *see* PEARCE, R. H.
- MATSON, C. F. Abstract, 644
- Measurement of hepatic glucose output in man (Abstract), by J. R. Leonards, 457
- Metanephrine, urinary, 1
- Method for determination of magnesium in serum and urine, by H. H. Sky-Peck, 391
- Method for the determination of Vitamin E (total tocopherols) in serum, by R. G. Martinek, 1078
- Method for quantitative extraction of urinary 5-hydroxyindole-acetic acid, by F. M. Sochor, 721
- 3-methoxy-4-hydroxymandelic acid, determination, 636, 637
- MEUFFELS, M., *see* KLOTZ, M. O.
- MICKELSEN, O., WOOLARD, H., and NESS, A. T. Decolorization on freezing of ferricyanide-cyanide solution used for hemoglobin determinations, 611
- Micro estimation of hemoglobin, total cholesterol and total lipid using a new specimen-measuring device (Abstract), by R. L. Searcy, 468
- Micro method for blood serotonin (Abstract), by J. L. Berman, 640
- Micromethod for the rapid determination of serum protein-bound iodine and total serum iodine, by E. Gardiner and A. Burns, 1137
- Micromethods for measuring phenylalanine and tyrosine in serum, by P. W. K. Wong *et al.*, 1098
- Microprocedure for the determination of 4-pyridoxic acid in urine, by M. J. Woodring *et al.*, 479
- Modern methods for determining cerebrospinal fluid protein, by D. Watson, 412
- Modification of the AutoAnalyzer sampler module (Abstract), by R. E. Thiers, 651
- Modified procedure for the estimation of total 17-hydroxycorticosteroids (Porter-Silber chromogens) in urine, J. H. C. Liu, 103
- Modified transport system for sequential colorimetric determinations (Abstract), by D. J. Lowell, 463
- MOHAMMED, A., *see* DIRSTINE, P. H.
- MOORE, D. J., and LABBE, R. F. Quantitative assay for urinary porphobilinogen, 1105
- MOORE, W. T., RODARTE, J., and SMITH, L. H., JR. Urea synthesis by hemic cells, 1059
- MORGANSTERN, S. Abstract, 635
- MORRISON, D. B. Abstract, 662
- MOSHER, R. E., *see* BURCAR, P. J.
- Multichannel automation in clinical chemistry—a critical evaluation (Abstract), by R. E. Thiers, 651
- Multiple automatic sequential analysis, by L. T. Skeggs, Jr., and H. Hochstrasser, 918
- NADEAU, G., and FORTIN, B. Determination of the iron-binding capacity of blood serum, 862
- NATELSON, S. Abstract, 658
- NESS, A. T., *see* MICKELSEN, O.
- NEWCOMER, A., *see* WALDSTEIN, S. S.

- New high-speed electrophoretic system (Abstract), by R. N. Rand, 644
- New method for the determination of ascorbic acid in urine, by L. Kumtatt and P. C. Leong, 575
- New method for scanning electrophoretograms, by J. J. Kabara *et al.*, 950
- NICHOLAS, H. O., and CHAMBERLIN, J. A. Primary hyperparathyroidism, 228
- NICHOLAS, H. O., *see* HANNA, E. A.
- Nitrogen storage and ammonia utilization in dogs receiving a low protein diet and growth hormone (Abstract), by O. H. Gaebler, 655
- Nomogram for estimating diffusible serum calcium, by E. A. Hanna *et al.*, 235
- Normetanephrine, urinary, 1
- Observation concerning the Bratton-Marshall diazo reaction in sulfonamide-free urine, by J. S. Annino, 370
- O'FLYNN, M. E., *see* WONG, P. W. K.
- OGLESBY, K. M., *see* THIERS, R. E.
- OLMSTED, F. Abstract, 466
- OLMSTEAD, E. G., and LUNSETH, J. H. Clinical studies on glucose metabolism via the pentose phosphate pathway in human erythrocytes, 1050
- Operation of the Technicon flame photometer with natural gas, and its use in the macro and semimicro analysis for Na, K, and Li (Abstract), by G. F. Lanchantin, 651
- Optimum clinical application of serum protein electrophoresis, by P. H. Dirstine *et al.*, 853
- ORLOFF, M. J., and STEVENS, C. O. Preservation of blood ammonia by rapid freezing—A method for delayed determinations, 991
- Ornithine carbamoyltransferase, 634
- Oxidation of glutathione by serum, by H. R. Rony *et al.*, 53
- Paper chromatography as an aid in steroid structural analysis: Some new R_m values in the C_{19} and C_{21} series (Abstract), by D. J. Watson, 461
- PARDUE, H. L. Abstract, 464
- Parotid secretion components, 650
- PARSONS, J. Abstract, 458
- Partial thromboplastin test, 69
- Paternity exclusion by paper electrophoresis (Abstract), by J. W. King, 459
- PEARCE, R. H., WATSON, E. M., STODOLSKI, R., MATHIESON, J. M., and THEORET, J. J. Effects of age and sex on the electrophoretic fractions of the serum glycoprotein, 1066
- PECKHAM, S. Abstract, 656
- PETERS, T., JR. Abstract, 646
- Phenylalanine, 146, 1098
- Phosphate, serum in organic, 417
- Phosphatase, alkaline, 1112
- determination, 635, 636
- Phospholipids, 654
- Phosphorus, determination, 686
- Photometric determination of urinary proteins, by A. Saifer and S. Gerstenfeld, 321
- Photometric microdetermination of tryptophan in biologic materials, by A. Saifer and S. Gerstenfeld, 970
- Photometric system for automatically reading concentration, by D. K. McKay *et al.*, 907
- PILEGGI, V. J., *see* LEE, N. D.
- PIMSTONE, N. R. Study of the starch-iodine complex: A modified colorimetric micro determination of amylase in biologic fluids, 891
- PINO, S. Abstract, 650
- Plasma amino acids in young and older adult human subjects, P. G. Ackermann and T. Kheim, 32
- POKORNICKI, H., *see* KABARA, J. J.
- Porphobilinogen, urinary, 1105
- PORTO, J. V., *see* CABEZAS, J. A.
- Practical method for potential clinical fibrinolysis (Abstract), by A. A. Rosenberg, 660
- Practical multiple colorimetric determinations with digital output (Abstract), by D. J. Lowell, 463
- Precision, accuracy, and inherent errors of automatic continuous flow meth-

- ods, by R. E. Thiers and K. M. Oglesby, 246
- Pregnanediol, 170
- Pregnanetriol, 170
- Pre-menstrual tension and adrenal steroids (Abstract), by M. E. Denison, 657
- Preservation of blood ammonia by rapid freezing—A method for delayed determinations, by M. J. Orloff and C. O. Stevens, 991
- Presidential address, by J. Sendroy, Jr., 965
- PRICE, D. C., *see* FISCHER, D. S.
- Primary hyperparathyroidism, by H. O. Nicholas and J. A. Chamberlin, 228
- Processing of feces for analysis (Abstract), by A. W. Webb, 661
- Protein-bound carbohydrate, 824
- Protein-bound iodine, 649, 660, 1137
- Proteins, 824, 1131
- cerebrospinal fluid, 412
- coagulation, 789
- determination of, 642, 643
- electrophoresis, 458, 853
- limitation test for, 559
- plasma, 793
- urinary, 321
- Prothrombin time, 730
- Punched-card reference system for biochemists, by N. Weissman, 214
- 4-Pyridoxic acid, urine, 479
- Quality control, 655, 662
- Quality control methods in a 1700 bed hospital (Abstract), by S. Peckham, 656
- Quantitation of serum urea as microcapillary columns of dioxanthylurea, by R. L. Searcy *et al.*, 128
- Quantitation of some abnormal hemoglobins, by J. R. Kelsey and R. A. Kloss, 424
- Quantitation of thin-layer chromatograms (Abstract), by J. J. Kabara, 462
- Quantitative assay for urinary porphobilinogen, by D. J. Moore and R. F. Labbe, 1105
- Quantitative determination of 3-methoxy-4-hydroxymandelic acid (VMA) in urine by thin layer chromatography (Abstract), by J. S. Annino, 636
- RABIAH, S., *see* FISCHL, J.
- RADIN, N. and GRAMZA, A. L. Differential spectrophotometric determination of calcium, 704
- RAND, R. N. Abstract, 644
- Rapid blood glucose method (Abstract), by S. RUSSELL, 641
- Rapid determination of plasma ammonia by an ion-exchange technique, by D. T. Forman, 497
- Rapid determination of the urinary 3-methoxy-4-hydroxymandelic acid (VMA) by electrophoresis on cellulose polyacetate strip (Abstract), by S. E. Aguayo, 637
- Rapid method for cholesterol determination with a single reagent, by P. Zurkowski, 451
- Rapid saccharogenic method for the determination of serum amylase (Abstract), by B. Fingerhut, 633
- Rapid semiautomatic system of chemical analysis using true microspecimens, by A. R. Walter and H. W. Gerarde, 509
- Rapid ultramicro spectrophotometric determination of magnesium (Abstract), by E. W. Rice, 465
- Recovery of hydrocarbons from lung tissue following the fatal ingestion of furniture polish: Characterization by gas chromatography and infrared spectroscopy (Abstract), by G. W. Johnson, 648
- REINER, M. Abstract, 653
- REMN, D. C. Abstract, 639
- RESSLER, N., and JOSEPH, R. R. Simple method of preparative electrophoresis, 346
- RICE, E. W. Abstract, 465, 661
- Interference of thionuracil in the ferrie

- chloride-sulfuric acid cholesterol reaction, 1025
- RICHTER, H., *see* KLOTZ, M. O.
- RIGBY, J., *see* CAMPDELL, R. J.
- RODARTE, J., *see* MOORE, W. T.
- RODKEY, F. L.
Abstract, 643
Tris (hydroxymethyl) aminomethane as a standard for Kjeldahl nitrogen analysis, 606
- ROGERS, C. J. Coproporphyrin analyses on random urine samples, 678
- RONY, H. R., WEST, M., and ZIMMERMAN, H. J. Oxidation of glutathione by serum, 53
- ROSANO, C. L. Enzymatic method for determination of vanillyl mandelic acid, 673
- ROSE, L., *see* FENICHEL, R. L.
- ROSENBERG, A. A. Abstract, 660
- RUSSELL, S. Abstract, 641
- RYAN, W. T., FERRO, W. F., and BEYLER, A. L. Improved method for the measurement of urinary 17-ketosteroids of small laboratory animals, 191
- RYLAND, M. E. Semimicro modification of the Karr urea determination method using the Somogyi serum filtrate, 406
- SAHAGIAN, B., and LEVINE, V. E. Determination of cholesterol by means of phloroglucinol in acid solution, 116
- SARMA, P. L. Diagnostic test for fructosuria, 224
- SAIFER, A. Abstract, 642
- SAIFER, A., and GERSTENFELD, S.
Photometric determination of urinary proteins, 321
Photometric microdetermination of tryptophan in biologic materials, 970
- SCHAFFERT, R. R., *see* GETCHELL, G.
- SCHAFFERT, R. R., KINGSLEY, G. R., and GETCHELL, G. Automated determination of serum glutamic oxalacetic and glutamic pyruvic transaminase, 519
- SCHOENFELD, R. G. and LEWELLEN, C. J. Colorimetric method for determination of serum chloride, 533
- SCHMIT, J. A. Abstract, 637
Screening test for fast isoniazid inactivators, by L. Eidus and E. J. Hamilton, 581
- SCHWARTZ, H. P. Abstract, 654
- SEARCY, R. L. Abstract, 468
- SEARCY, R. L., KOROTZER, J. L., DOUGLAS, G. L., and BERGQUIST, L. M. Quantitation of serum urea as microcapillary columns of dioxanthylurea, 128
- SEGALOVE, M.
see JACOBS, S. L.
see LEE, N. D.
- SELIGSON, D.
see HALD, P. M.
see MCKAY, D. K.
see ZETTNER, A.
- Semiautomatic determination of serum glucose and urea using a new three-channel pipetting machine, by G. Sobolewski, 563
- Semimicro modification of the Karr urea determination method using the Somogyi serum filtrate, by M. E. Ryland, 406
- SENDROY, J., JR. Presidential address, 965
- Seroflocculating steroids: XI. Interim summary, by F. C. Chang, 490
- Seroflocculating steroids. X. The screening method, by F. C. Chang and R. T. Blickenstaff, 83
- Seromucoid, 653, 736
- Serotonin, blood, 640
- Serum cholesterol assay by quantitative gas-liquid chromatography (Abstract), by J. A. Schmit, 637
- Serum cholesterol, by J. H. Boutwell, Jr., 1039
- Serum cholinesterase activity: Normal ranges and intraindividual stability (Abstract), by H. J. Wetstone, 632
- Serum enzyme quality control studies (Abstract), by G. M. Kunitake, 655
- Serum glycoproteins and seromucoid in patients with myocardial infarction, by J. W. Keyser and B. T. Stephens, 736

- Serum lipid levels in newborn infants (Abstract), by A. Kaplan, 657
- Serum urea nitrogen estimation with Urograph (Abstract), by K. M. Dubowski, 659
- Serum uric acid estimation by enzymatic methods (Abstract), by D. C. Remm, 639
- SHERBANIUK, R., *see* CAMPBELL, D. J.
- Shortened screening test for catecholamines, by S. L. Ettman and H. W. Gordon, 959
- Sialic acid (N-acetylneuraminic acid) in human serum, by J. A. Cabezas and J. V. Porto, 986
- SIMMS, N. M. Abstract, 460
- Simple automated method for urine creatinine (Abstract), S. Pino, 650
- Simple microelectrophoretic method using starch-agar gel, by T. Hase, 62
- Simple method of preparative electrophoresis, by N. Ressler and R. R. Joseph, 346
- Simple serum iron method using the new sensitive chromogen tripyridyl-s-triazine, by D. S. Fischer and D. C. Price, 21
- Simplified micro precipitation method for plasma fibrinogen estimation (Abstract), by N. M. Simms, 460
- Simplified estimation of leucine aminopeptidase (LAP) activity, by R. G. Martinek *et al.*, 1087
- Simplified polyacrylamide gel electrophoresis (Abstract), by C. F. Matson, 644
- Simplified technique for determination of small amounts of calcium as oxalate, by D. D. Van Slyke and P. E. Carson, 352
- Simplified ultramicro determination of carbon dioxide content using the Natelson microgasometer, by R. G. Martinek, 153
- Simultaneous determination of calcium and magnesium of serum by a single chelometric titration, by S. H. Jackson and F. Brown, 159
- SINNETT, S. L., *see* HOCH, H.
- SKEGGS, L. T., JR., and HOCHSTRASSER, H. Multiple automatic sequential analysis, 918
- SKY-PECK, H. H. Method for determination of magnesium in serum and urine, 391
- Slide-rule, special-purpose, 464
- SMITH, L. H., JR., *see* MOORE, W. T.
- SOBOLEWSKI, G. Semiautomatic determination of serum glucose and urea using a new three-channel pipetting machine, 563
- SOCHOR, F. M. Method for quantitative extraction of urinary 5-hydroxyindole-acetic acid, 721
- Solids, serum and urine, 661
- Solvent coagulation of serum proteins, by M. London *et al.*, 789
- SPARE, P. D. Stable murexide reagent for the estimation of calcium in micro quantities of serum, 726
- Spectrophotometric determination of magnesium in blood serum using Magon, by P. J. Burcar *et al.*, 1028
- Spectrophotometric determination of microgram quantities of copper in biologic materials, by R. E. Stoner and W. Dasler, 845
- Spectrophotometry, 1117
- Spinal fluid, 467
- Stable murexide reagent for the estimation of calcium in micro quantities of serum, by P. D. Spare, 726
- Starch-agar gel, electrophoresis, 62
- Starch-iodine complex, 891
- STEPHENS, B. T., *see* KEYSER, J. W.
- STERLING, R. E., WILCOX, A. A., WARE, A. G., and UMEHARA, M. K. Automated determination of alkaline phosphatase utilizing p-nitrophenol phosphate, 1112
- Steroids, 490
- adrenal, 657
- structural analysis, 461
- STEVENS, C. O., *see* ORLOFF, M. J.
- STEVENSON, G. W., JACOBS, S. L., and HENRY, R. J. Studies on the deter-

- mination of bile pigments: IV. Spectrophotometric determination of free and total bilirubin in serum, 95
- STEWART, C. P. Ames Award Lecture 1963: The development of clinical chemistry, 268
- STODOLSKI, R., *see* PEARCE, R. H.
- STONER, R. E., and DASLER, W. Spectrophotometric determination of microgram quantities of copper in biologic materials, 845
- STORVICK, C. A., *see* WOODRING, M. J.
- STRANDJORD, P. E. Abstract, 634, 635
- Study of variables affecting the ion-exchange resin uptake of I^{131} -labeled triiodothyronine from human serum, by N. D. Lee *et al.*, 136
- Studies of body water and water turnover determined with deuterium oxide added to food, by O. H. Gaebler and H. C. Choitz, 13
- Studies on the determination of bile pigments: IV. Spectrophotometric determination of free and total bilirubin in serum, by G. W. Stevenson *et al.*, 95
- Studies on the determination of bile pigments: V. Comparison of some methods for determination of total, free and conjugated bilirubin in serum, by S. L. Jacobs *et al.*, 433
- Studies on the determination of bile pigments: VI. Urobilinogen in urine as urobilinogen-aldehyde, by R. J. Henry *et al.*, 440
- Studies of magnesium carbonate as an iron-binding agent using Fe^{59} (Abstract), by M. K. Young, 639
- Study of the starch-iodine complex: A modified colorimetric micro determination of amylase in biologic fluids, by N. R. Pimstone, 891
- STUMPF, A. M. Abstract, 662
- Sugars, identification by infrared spectroscopy, 741
- SUNSHINE, I. Abstract, 648
- SWEENEY, T. C. Abstract, 459
- THEORET, J. J., *see* PEARCE, R. H.
- THIERS, R. E. Abstract, 651
- THIERS, R. E. and OGLESBY, K. M. Precision, accuracy, and inherent errors of automatic continuous flow methods, 246
- Thin-layer chromatograms, 462
- Thiouracil, 1025
- Thromboplastin reagent, 69
- Tocopherols, 1078
- Toluene, 597
- Total bile acids in the serum of patients with liver disease (Abstract), by S. J. Levin, 646
- Total iodine in urine, stool, diets, tissue and other body fluids (Abstract), by J. Benotti, 660
- TREW, J. A., *see* KEAY, H.
- Tripyridyl-s-triazine, 21
- Tris (hydroxymethyl) aminomethane as a standard for Kjeldahl nitrogen analysis, by F. L. Rodkey, 606
- Tryptophan, 970
- Turbulent drier-extractor and a wide-interface extractor: A method for determining total lipid in serum, feces, and urine, by F. E. Holmes, 1007
- Tyrosine, 1098
- ULIN, A. W., *see* GOLLUB, S.
- UMEHARA, M. K., *see* STERLING, R. E.
- Urea, 128, 406, 563
nitrogen, 659
serum and urine, 366
- Urea synthesis by hemic cells, by W. T. Moore *et al.*, 1059
- Uric acid, 298
determination, 838, 937
serum, 640, 639
- Uricase-carbonate method for the determination of uric acid in serum (Abstract), by W. T. Caraway, 640
- Urinary pregnanediol and pregnanetriol: spectrophotometric determination following aluminum oxide column chromatography, by D. Klein and J. M. Chernaik, 170
- Urobilinogen, 440

- Useful modification of the prothrombin time, by S. Gollub and A. W. Ulin, 730
- Use of gamma globulins for standardizing the Hanger cephalin-cholesterol flocculation test (Abstract), by A. R. Briggs, 647
- Use of halogenated acetates and formaldehyde as plasma additives in inhibiting heat denaturation of plasma proteins, by D. Dawson *et al.*, 793
- Use of the "Heidbrink weighing glass" for the rapid gravimetric microdetermination of solids in serum and urine (Abstract), by E. W. Rice, 661
- Use of the oscilloscope in the clinical chemistry laboratory (Abstract), by T. C. Sweeney, 459
- Use of a stabilized partial thromboplastin reagent in the partial thromboplastin test, by R. L. Fenichel *et al.*, 69
- Uses for a holmium oxide filter in spectrophotometry, by R. P. MacDonald, 1117
- Vanilmandelic acid (VMA), 447, 673
- VAN SLYKE, D. D., and CARSON, P. E. Simplified technique for determination of small amounts of calcium as oxalate, 352
- VIMBA, E., *see* MARTINEK, R. G.
- Vitamin E, 1078
- WADA, S., *see* GRANDE, F.
- WALDSTEIN, S. S., DUBIN, A., NEWCOMER, A., and MCKENNA, C. H. Determination of exogenous galactose in blood using "specially purified" glucose oxidase, 381
- WALTER, A. R., and GERARDE, H. W. Rapid semiautomatic system of chemical analysis using true microspecimens, 509
- WARE, A. G., *see* STERLING, R. E.
- WATSON, D.
Limitations in clinical use of a screening test for protein, 559
- Modern methods for determining cerebrospinal fluid protein, 412
- WATSON, D. J. Abstract, 461
- WATSON, E. M., *see* PEARCE, R. II.
- WEBB, A. W. Abstract, 661
- WEINBERG, M. S.
Lactic dehydrogenase: A comparison of two methods, 749
see HALD, P. M.
- WEISSMAN, M., *see* KLEIN, B.
- WEISSMAN, N. Punched-card reference system for biochemists, 214
- WEST, M., *see* RONY, H. R.
- WETSTONE, H. J. Abstract, 632
- WHITEHOUSE, J. L. Abstract, 632
- Wide-interface extractor, 1007
- WILCOX, A. A., *see* STERLING, R. E.
- WOGGIN, C. A., *see* MCKAY, D. K.
- WOLFMAN, M., *see* KESSLER, G.
- WONG, P. W. K., O'FLYNN, M. E., and INOUE, T. Micromethods for measuring phenylalanine and tyrosine in serum, 1098
- WOODRING, M. J., FISHER, D. H., and STORVICK, C. A. Microprocedure for the determination of 4-pyridoxic acid in urine, 479
- WOOLARD, H., *see* MICKELSEN, O.
- WOOLF, L. I., and GOODWIN, B. L. Determination of phenylalanine in blood and urine, 146
- WYBENGA, D., *see* BRUNJES, S.
- X-ray diffraction methods, 458
- YOUNG, M. K. Abstract, 639
- ZAJTCHUK, R., *see* DAWSON, D.
- ZAK, B. Abstract, 649
- ZETTNER, A., and SELIGSON, D. Application of atomic absorption spectrophotometry in the determination of calcium in serum, 869
- ZIMMERMAN, H. J., *see* RONY, H. R.
- ZURKOWSKI, P. Rapid method for cholesterol determination with a single reagent, 451
- ZYSKOWSKI, D., *see* KABARA, J. J.

